HATCH LED DRIVERS

LC SERIES
CONSTANT CURRENT LED DRIVER

GENERAL INFORMATION

LED Driver Type	Constant Current (Class 2)
Maximum Wattage	25Watts
Input Voltage	120 VAC ± 10% Dedicated 120 - 277 VAC ± 10% Universal
Input Frequency	50/60Hz
Total Harmonic Distortion	<20%

CASE STYLE Q: POLYCARBONATE

ELECTRICAL SPECIFICATIONS

Watts	Rated Current	Output Voltage	Dimming Type	Input Voltage	Input Power	Input Current	Power Factor	Efficiency	Hatch Part Number
25W	**Dimming Models**								
	**350mA	24 - 72 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	80%	**LC25-0350Z-UNV-Q
	*450mA	19 - 56 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	*LC25-0450Z-UNV-Q
	*500mA	17 - 50 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	*LC25-0500Z-UNV-Q
	600mA	14 - 42 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	LC25-0600Z-UNV-Q
	700mA	12 - 36 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	LC25-0700Z-UNV-Q
	850mA	10 - 29 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	LC25-0850Z-UNV-Q
	1050mA	9 - 24 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	LC25-1050Z-UNV-Q
	1200mA	8 - 21 VDC	0-10V Dimming	120 - 277 VAC	30W	0.28/0.13A	>0.90	81%	LC25-1200Z-UNV-Q
	1400mA	6 - 18 VDC	0-10V Dimming	120-277 VAC	30W	0.28/0.13A	>0.90	81%	LC25-1400Z-UNV-Q
	Phase Dimming Models								
	**350mA	24 - 72 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	80%	**LC25-0350P-120-Q
	*450mA	19 - 56 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	81%	*LC25-0450P-120-Q
	*500mA	17 - 50 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	81%	*LC25-0500P-120-Q
	600mA	14 - 42 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	81%	LC25-0600P-120-Q
	700mA	12 - 36 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	81%	LC25-0700P-120-Q
	900mA	9 - 28 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	81%	LC25-0900P-120-Q
	1050mA	8 - 24 VDC	Phase Dimming	120 VAC	30W	0.29A	>0.90	80%	LC25-1050P-120-Q

** Non-Class 2 *Class 2 US ONLY

PRODUCT FEATURES

- Short circuit and overload protection
- Suitable for wet locations
- Withstanding voltage: I/P – O/P 4.0kVDC, 2mA
- Operating temperature range: -40°C to 90°C (measured at Tcase)
- MTBF: 374,000 hours @ 40°C ambient (~70°C case temp)
- Surge voltage rating: L-N 2kV,
- Inrush Current: <5A Max @120VAC for 120V input models, cold start 25°C
- Inrush Current: <7A Max @230VAC for Universal input models, cold start 25°C
- Output Current tolerance +/- 5% @ 25°C
- 0-10V dimming range: 10%-100%

APPROVALS

- UL 8750 recognized component
- EN61000-3-2
- EMC: Meets FCC47 CFR Part 15 (Class B) consumer limits
- IP66

TYPE HL

RoHS COMPLIANT

IP66

c UL us LISTED CLASS P

WARRANTY

- 5 year limited warranty

Specifications subject to change without notice.

hatch LED DRIVERS

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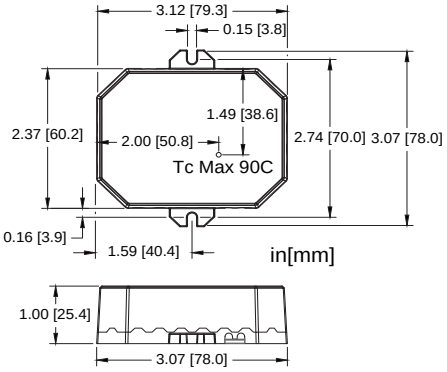
MECHANICAL SPECIFICATIONS: CASE STYLE Q



DIMENSIONS [IN/MM]

Length:	3.07 [78.0]
Mounting:	2.74 [69.6]
Width:	3.14 [79.8]
Height:	1.00 [25.4]

WIRING INFORMATION

Input:	12", Black (L), White (N) #18AWG
Output:	12", Red (+), Blue (-) #18AWG
	#22AWG (with Class 2 Output)
Dimming:	12", Purple (+), Grey (-) #22AWG

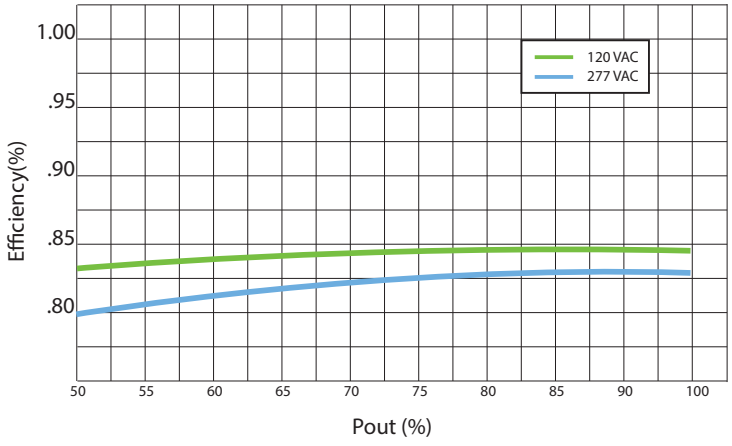
PACKAGING INFORMATION

Weight:	6.4 oz
Quantity:	50pc/carton

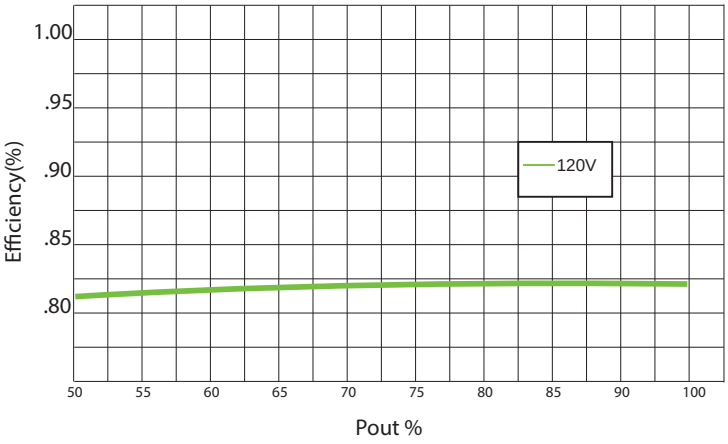
PERFORMANCE CURVES

Efficiency VS Output Power

Efficiency vs. Output Power - 0-10V-Dimming

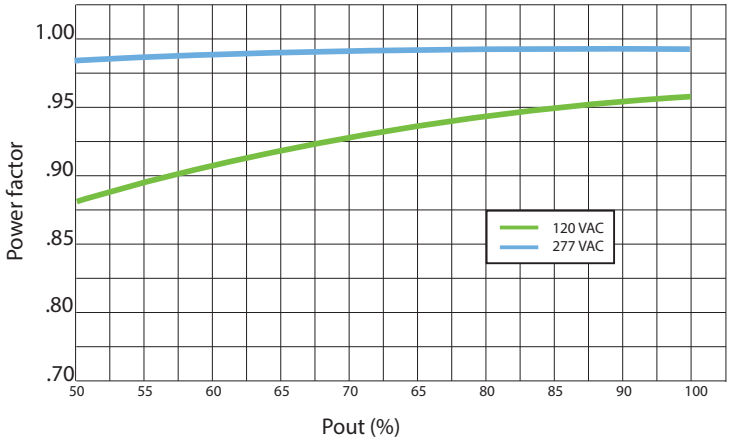


Efficiency vs. Output Power - Phase Dimming

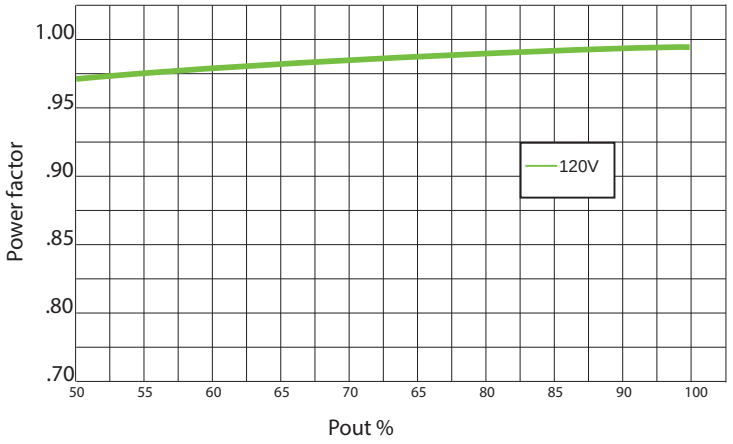


Power Factor VS Output Power

Power Factor vs. Output Power - 0-10V Dimming



Power Factor vs. Output Power - Phase Dimming



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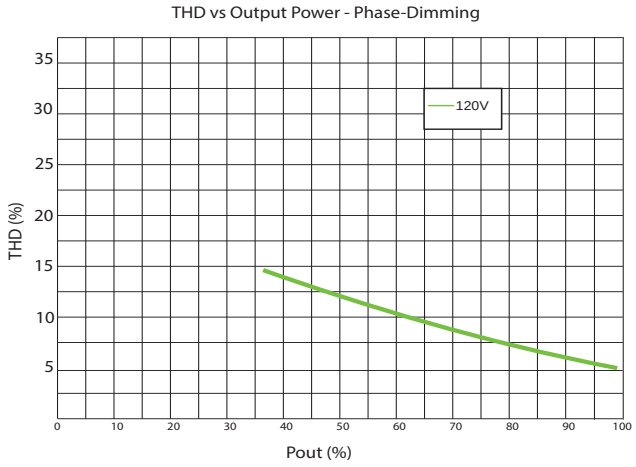
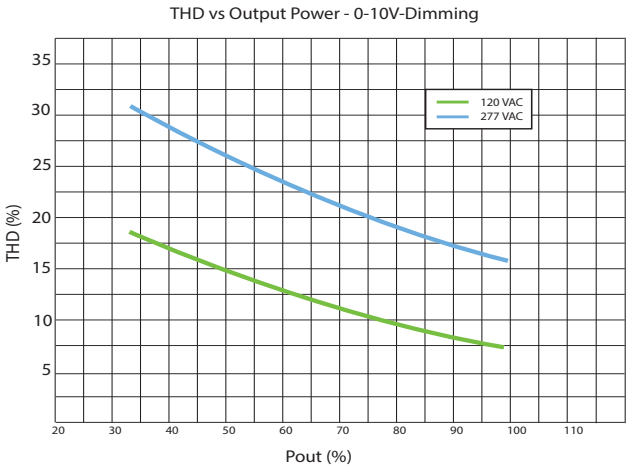
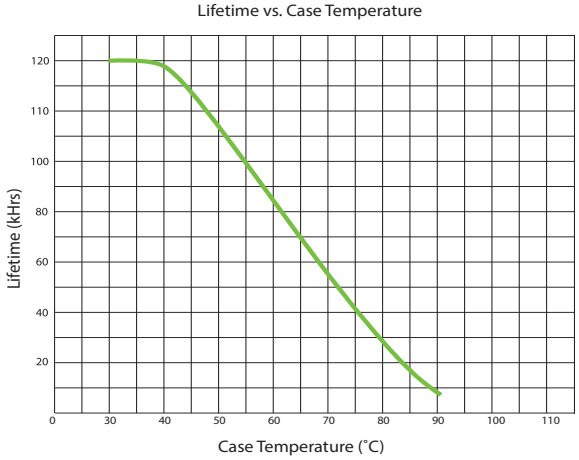
PERFORMANCE CURVES

THD VS Output Power

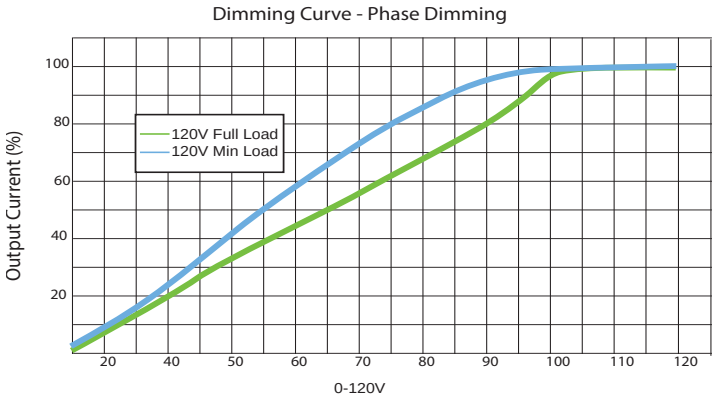




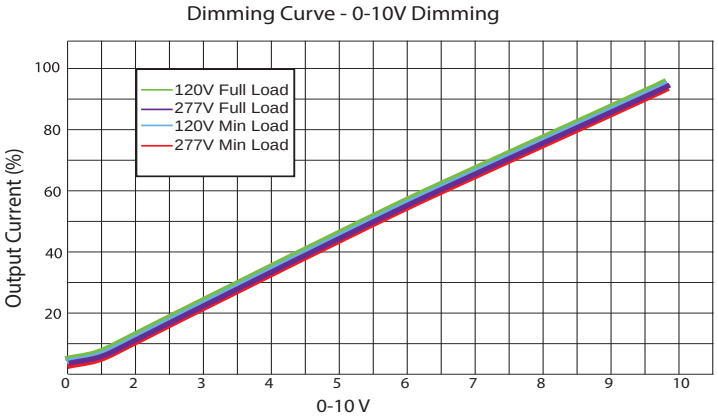
Lifetime VS Case Temperature



Dimming Curves



Output voltage range must be maintained throughout entire dimming range.



Output voltage range must be maintained throughout entire dimming range.